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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/542,931

07/21/2005

Tetsu Suzuki

2005_1153A

9156

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7590

06/01/2009

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EXAMINER

GODBOLD, DOUGLAS

ART UNIT

PAPER NUMBER

2626

MAIL DATE

DELIVERY MODE

06/01/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

**Supplemental
Notice of Allowability**

Application No.

10/542,931

Examiner

DOUGLAS C. GODBOLD

Applicant(s)

SUZUKI ET AL.

Art Unit

2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed 21 January 2009.
2. ☒ The allowed claim(s) is/are 22,29-33 and 36-45.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Talivaldis Ivars Smits/
Primary Examiner, Art Unit 2626

5/28/2009

DETAILED ACTION

1. This Supplemental Allowance is being issued to correct typographical errors found in the Examiners amended issued April 14, 2009. The Examiners amendment for claims 40 and 41 have been corrected..

Response to Amendment

2. The amendment filed January 21, 2009 has been accepted and considered in this office action. Claims 22, 29-32, and 36-42 have been amended, claims 23-28, 34, and 35 cancelled, and claims 43-45 added.

Response to Arguments

3. Applicant's arguments, see Remarks, filed January 21, 2009, with respect to claims 22, 29-33, 36-45 have been fully considered and are persuasive. The rejections of claims 22, 29-33, 36-45 has been withdrawn.

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for the examiner's amendment to the claims was given in a telephone interview with Aldo A. D'Ottavio on April 1, 2009.

Amend the application as follows:

In the Claims:

2. In claim 22, line 5, insert the words --using a processor-- between the words --feature-- and --in--.
3. In claim 39, line 5, insert the words --using a processor-- between the words --feature-- and --in--.
4. In claim 40, line 6, insert the words --using a processor-- between the words --transform-- and --each--.
5. In claim 41, line 6, insert the words --using a processor-- between the words --transform-- and --each--.
6. In claim 44, line 5, insert the words --using a processor-- between the words --feature-- and --in--.
7. In claim 45, line 5, insert the words --using a processor-- between the words --feature-- and --in--.

In the Title:

8. Amend the title to read as follows: --Harmonic Structure Based Acoustic Speech Interval Detection Method and Device--.

Allowable Subject Matter

9. Claims 22, 29-33, and 36-45 are allowed. The following is an examiner's statement of reasons for allowance:

10. Consider claim 22, the prior art of record (Wu, Honda, Kamba, Borth, Tsutsui, Rozinaj, and Hagen) fail to teach or suggest, alone or in combination, speech interval detection including " a weight calculation of calculating a weight, in a same frame or between adjacent frames based on differences between correlation values between frequency components in predetermined subbands, said calculated weight, when a difference between a maximum value of correlation values and a minimum value of correlation values between subband frequency components is larger than a threshold value, being smaller than the calculated weight when the difference between the maximum value of the correlation values and the minimum value of the correlation values is smaller than the threshold", in combination with the remaining limitations of the claim.

11. Claims 29-33, and 36-38, are dependent on and further limit claim 22 or their allowed parent claims and are therefore also allowed.

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12. Claim 39, contains similar allowable limitations as claim 22, and is therefore allowed for similar reasons.

13. Claim 40, contains similar allowable limitations as claim 22, and is therefore allowed for similar reasons.

14. Claim 41, contains similar allowable limitations as claim 22, and is therefore allowed for similar reasons.

15. Claim 42, contains similar allowable limitations as claim 22, and is therefore allowed for similar reasons.

16. Claim 44, contains similar allowable limitations as claim 22, and is therefore allowed for similar reasons.

17. Claim 45, contains similar allowable limitations as claim 22, and is therefore allowed for similar reasons.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOUGLAS C. GODBOLD whose telephone number is (571)270-1451. The examiner can normally be reached on Monday-Thursday 7:00am-4:30pm Friday 7:00am-3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on (571) 272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DCG

/Talivaldis Ivars Smits/
Primary Examiner, Art Unit 2626
5/28/2009